www.incose.org

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SMSWG - *SMS Roadmap Team*

Lead: Frank Popielas

Report out at IW 2019, Torrance, CA
January 28, 2019

Systems Modeling and Simulation:*
The use of interdisciplinary functional, architectural, and behavioral models (with physical, mathematical, and logical representations) in performing MBSE to specify, conceptualize, design, analyze, verify and validate an organized set of components, subsystems, systems, and processes.

*SMSWG – Terms & Definitions: https://www.nafems.org/about/technical-working-groups/systems_modeling/smstermsdefinitions/s-u/

Content

- Members
- Charter and how we will operate
- Status and Topics to be covered
- Open discussion

Members

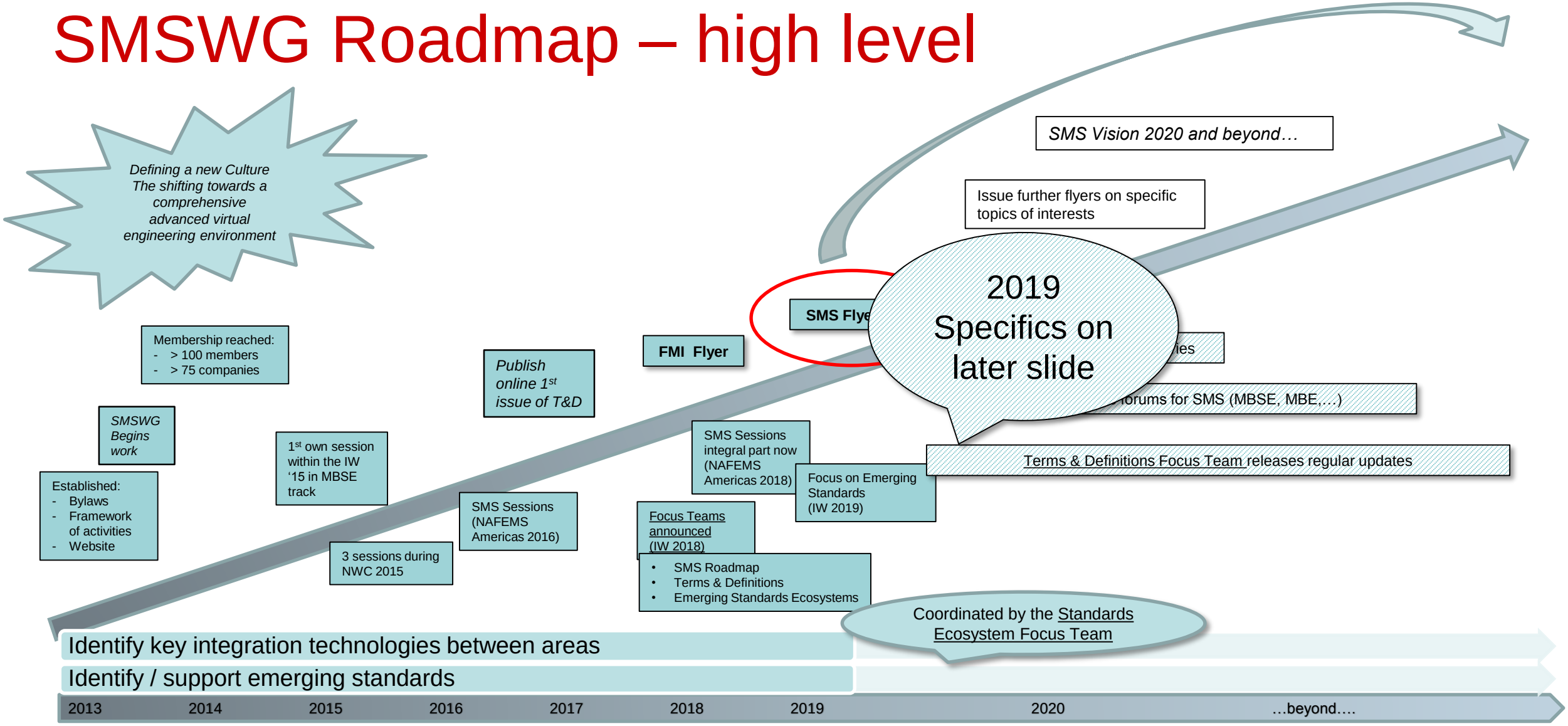
- Frank Popielas
- Roger Burkhart
- Rod Dreisbach
- Ed Ladzinski
- Matteo Nicolich

Charter and How we will operate

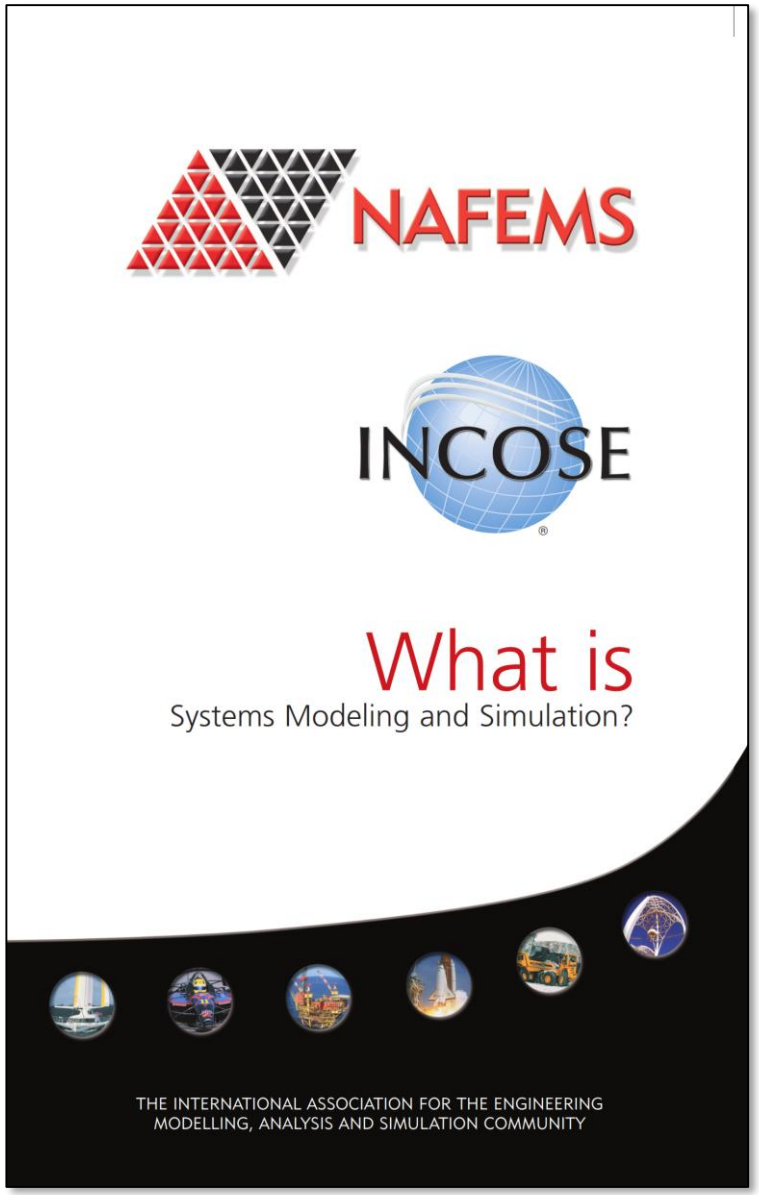
- Will meet on a regular basis as defined by the members (at least every other month)
- Will report back to general SMSWG at least twice a year

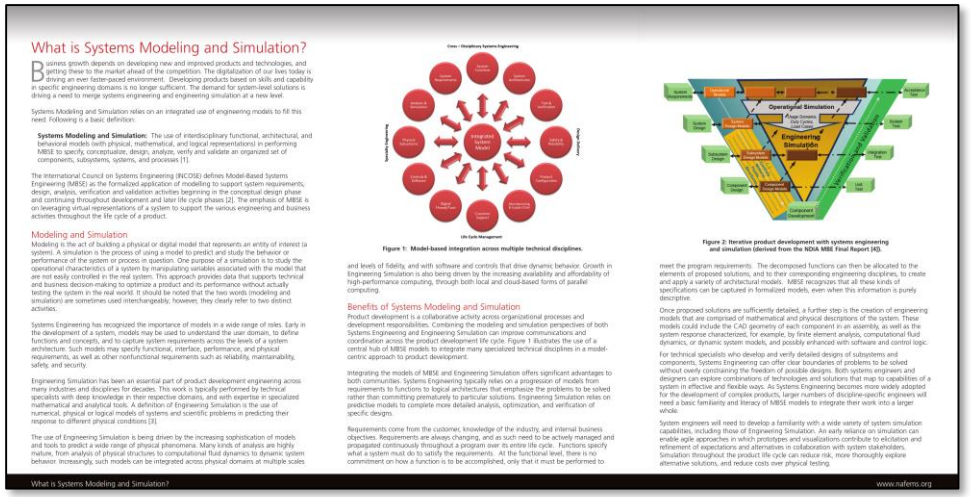
- Develop and maintain the roadmap for SMS
- Be the focal point for further developing the space and topic of SMS
- Share best practices with focus on end users
- Provide overviews / educational material

SMSWG Roadmap – high level



SMS Flyer – released for printing





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Topics / Focus 2019

- The flyer is the foundation
- Providing a better focus around “What is Model-Based…?”
  - Working together with T&D Focus Team to update / create proper definitions
  - Create a flyer on this topic
- Start to roll out the MBSE Series 101 and combine with company experiences (use cases from end users)
  - Will identify the sequence of the various topics (see next slide)
  - Provide those as part of the SMSWG meeting and make the material available to the group

MBSE Education

- **MBSE 101** – MBSE High Level View for Newcomers
- **MBSE 102** – Introduction to MBSE *(How We Explain MBSE without using the Traditional "V Model")*
- **MBSE 103** – MBSE Existing and Emerging Standards
- **MBSE 104** – MBSE Deeper Dive
- **MBSE 105** – Systems Engineering - *Challenges for Management*
- **MBSE 106** – Systems Engineering – *Deployment Challenges*
- **MBSE 107** – Digital Twin – *Its Role and structure within a modern Systems Engineering Approach*
- **MBSE 201** – MBSE Implications within the OEM/Supplier Community

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Discussion